China Harbour Engineering Company Limited

Contract No. DC/2007/20

Harbour Area Treatment Scheme Stage 2A – Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works

Environmental Monitoring and Audit Quarterly Report (Version 1.1) for

April to June 2009

Approved By

Dr. Priscilla Choy

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk

TABLE OF CONTENTS

		Page
EX	KECUTIVE SUMMARY	1
	INTRODUCTION	1
	ENVIRONMENTAL MONITORING AND AUDIT WORKS	
	Environmental Complaint and Prosecution	
	Environmental Licensing and Permitting	
	KEY INFORMATION IN THE REPORTING QUARTER	
	FUTURE KEY ISSUES	3
1	INTRODUCTION	5
	BACKGROUND	5
2	PROJECT CHARACTERISTICS	7
	PROJECT ORGANIZATION AND CONTACTS OF KEY MANAGEMENT	7
	CONSTRUCTION PROGRAMME AND SYNOPSIS OF WORK	
3	ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS	8
	MONITORING PARAMETERS AND MONITORING LOCATIONS	8
	MONITORING METHODOLOGY AND CALIBRATION DETAILS	8
	ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)	8
	Environmental Mitigation Measures	8
4	MONITORING RESULTS	9
	WEATHER CONDITIONS	9
	Air Quality	9
5	ENVIRONMENTAL AUDIT	10
	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	10
	SITE AUDIT SUMMARY	10
	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS	
	ADVICE ON WASTE MANAGEMENT STATUS	13
6	NON-COMPLIANCE (EXCEEDANCE) OF THE ENVIRONMENTAL QUAL	
	PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)	
	SUMMARY OF EXCEEDANCE	
	REVIEW OF THE REASONS FOR AND THE IMPLICATIONS OF NON-COMPLIANCE	
	SUMMARY OF ACTION TAKEN IN THE EVENT OF AND FOLLOW-UP ON NON-COMPLIANCE.	
7	ENVIRONMENTAL COMPLAINT	14
8	NOTIFICATION OF SUMMON AND SUCCESSFUL PROSECUTION	14
9	COMMENTS, CONCLUSIONS AND RECOMMENDATIONS	15

LIST OF TABLE

Table I	Summary Table for Event Recorded in the Reporting Quarter
Table II	Summary Table for Key Information in the Reporting Quarter
Table 5.1	ET's Observations and Recommendations of Site Audits

LIST OF FIGURES

Figure 1.1	Project Site Layout
Figure 1.2	Location of Environmental Monitoring Station
Figure 1.3	Project Organization Chart

LIST OF APPENDICES

Appendix A	Contact Details of the Project Organisation
Appendix B	Construction Programme
Appendix C	Monitoring Requirements
Appendix D	Action and Limit Levels
Appendix E	Graphical Presentation of Air Quality Monitoring Results
Appendix F	Summary of Environmental Mitigation Implementation Schedule (EMIS)
Appendix G	Summary of Environmental Licences and Permits
Appendix H	Complaint Log
Appendix I	Summary of Exceedance

Quarterly EM&A Report – April to June 2009

EXECUTIVE SUMMARY

Introduction

- 1. This is the 4th Quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by Cinotech Consultants Limited (the Environmental Team, ET) for Contract No. DC/2007/20 "Harbour Area Treatment Scheme Stage 2A Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works" (the Project). This report documents the findings of EM&A Works conducted in the period between April and June 2009.
- 2. The construction works for Portions 1 & 2 and Portions 3 & 4 of the Project were commenced on 18th July 2008 and 18th September 2008 respectively.
- 3. The major site activities undertaken in the reporting quarter included:
 - Construction of Switch Room no. 2 & Day Tank Storage Area;
 - Installation of E&M works of Switch Room no.1;
 - Construction of Barge Unloading Facilities;
 - Construction of Dechlorination Plant;
 - Construction of Sodium Hypochlorite Storage Compound;
 - Construction of pipe trench;
 - Construction of drainage works;
 - Construction of Cable Pit and Ducts;
 - Installation of dosing pipe on top of Sedimentation Tanks;
 - Construction of Switch Room no.3 & UPS Battery Room.
 - Finishing works for Switch Room No. 2;
 - Fiberglass Reinforced Plastic works of open mesh flooring, handrail, toe-board and cat-ladder at Day Tank Storage Area and Dechlorination Plant;
 - Fire Service & E&M works at Switch Room No. 3, Uninterruptible Power Supply Battery Room;
 - Installation works for Dosing pumps at Dechlorination Plant;
 - Installation works for Chemical pipes at Day Tank Storage Area and Dechlorination Plant:
 - Painting works for Protective coating inside sump pit, wash-out chamber and bund wall:
 - Water test for steel tanks and Fiberglass Reinforced Plastic tanks; and
 - Sand blasting inside steel tanks for internal lining.

Environmental Monitoring and Audit Works

- 4. Environmental monitoring and audit works for the Project was performed regularly in accordance with the Final EM&A Manual and the results were checked and reviewed. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the events and action taken in the reporting quarter is tabulated in Table I.

Table I Summary Table for Event Recorded in the Reporting Quarter

Parameter	No. of Ex	ceedance	No. of Event	Action Taken
1 at afficted	Action Level	Limit Level	Due to this Project	Action Taken
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A

1-hr TSP Monitoring

6. All 1-hour TSP monitoring was conducted at AM1 as scheduled in the reporting quarter. No Action / Limit Level exceedance was recorded.

24-hr TSP Monitoring

7. All 24-hour TSP monitoring was conducted at AM1 as scheduled in the reporting quarter. No Action / Limit Level exceedance was recorded.

Environmental Complaint and Prosecution

8. No environmental complaint, prosecution or notification of summons was received in this reporting quarter.

Environmental Licensing and Permitting

9. Environmental related licenses/permits granted to the Project include the Environmental Permit (EP), Chemical Waste Producer License, a billing account for Disposal of construction waste, Waste Water Discharge License and Construction Noise Permit (CNP).

Key Information in the Reporting Quarter

10. Summary of key information in this reporting quarter is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Quarter

Event	F	Event Details	Action Taken	Status	Remark
Event	Number	Nature	Action Taken	Status	Kemark
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
	4	Monthly EM&A Report for April 09 (Version 1.1)	Submitted to EPD on 14 th May2009 (EP condition 4.4).	No comment	
Status of submissions under EP		Quarterly EM&A Report for Jan to Feb 09 (Version 1.0)	Submitted to EPD on 2 nd June 2009 (Final EM&A Manual Section 10.2 & 10.10).	No comment	
under EP		Monthly EM&A Report for May 09 (Version 1.0)	Submitted to EPD on 10 th June 2009 (EP condition 4.4).	No comment	
		Monthly EM&A Report for June 09 (Version 2.0)	Submitted to EPD on 14 th July 2009 (EP condition 4.4).	No comment	
Notifications of any summons & prosecutions	0		N/A	N/A	

Future Key Issues

- 11. Major site activities for the coming quarter include:
 - Installation works for Switch Room no.1, 2 and 3;
 - FRP works of open mesh flooring, handrail, toe-board and cat-ladder at Day Tank Storage Area and Dechlorination Plant;
 - FS and E&M works at Switch Room no.3, UPS Battery Room;
 - Installation works for dosing pumps at Dechlorination Plant;
 - Installation works for chemical pipes at Day tank Storage Area and Dechlorination Plant;
 - Painting works for protective coating inside sump pit, wash-out chamber and bund wall;
 - · Water test for steel tanks and FRP tanks; and
 - Sand blasting inside steel tanks for internal lining.
- 12. The future environmental concerns will be mainly on dust emission from concrete breaking, excavation works and wind erosion due to dry and windy weather; ponding

Harbour Area Treatment Scheme Stage 2A –

Construction of Advance Disinfection Facilities at SCISTW

Quarterly EM&A Report – April to June 2009

water and surface runoff due to rain; and management on waste generated from the works above.

1 INTRODUCTION

Background

- "Harbour Area Treatment Scheme Stage 2A Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works" (hereinafter called the "the Project") under Contract No. DC/2007/20 is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). A Final Environmental Impact Assessment (EIA) Report has been prepared in July 2007 to consider the key issues of noise, air quality, water quality, ecological, construction waste and human health risk, and identify possible mitigation measures. The Final EIA Report was endorsed by Environmental Protection Department (EPD) on 8 November 2007 and was included in the EIA register under the EIAO as report no. AEIAR-113/2007. Environmental Monitoring and Audit (EM&A) Manual for the Final EIA Report was also included as part of the Final EIA report in the register. An Environmental Permit (EP) No. EP-295/2007 was issued on 3rd December 2007 for the Project "Harbour Area Treatment Scheme - Provision of Disinfection Facilities at Stonecutters Island Sewage Treatment Works" to the Drainage Services Department (DSD) as Permit Holder. This Project comprises the Construction Phase of the Project "Harbour Area Treatment Scheme - Provision of Disinfection Facilities at Stonecutters Island Sewage Treatment Works".
- 1.2 The Project comprises mainly the construction of the advance disinfection facilities (ADF) include:
 - (a) Chlorination system provision of a sodium hypochlorite solution storage farm and associated dosing system; and
 - (b) Dechlorination system provision of a sodium bisulphite storage and associated dosing system.
- 1.3 The Project site layout plan is shown in **Figure 1.1.**
- 1.4 The Project will be constructed within the existing sewage treatment works on Stonecutters Island (SCISTW), which is providing Chemically Enhanced Primary Treatment (CEPT) for 1.4 million cubic metres of sewage collected each day through deep tunnels from the HATS Stage 1 catchments (i.e. the whole of Kowloon peninsula, Tseung Kwan O, Kwai Chung, Tsing Yi, Chai Wan and Shau Kei Wan). The design treatment capacity of the SCISTW is 1.7 million cubic metres per day. At present, the plant has no disinfection facility and the CEPT treated effluent is now discharged to the waters southwest of Stonecutters Island through a 1.7 km long outfall.
- 1.5 The chlorination system of the disinfection facilities would be located within the site boundary of the existing SCISTW (**Figure 1.1** refers). The dechlorination plant would be located adjacent to the existing chamber no. 15 (**Figure 1.1** refers) at the western end of Container Port Road South.

- 1.6 China Harbour Engineering Company Limited (CHEC) was awarded as the main contractor (hereinafter called "the Contractor") of the Project. Cinotech Consultants Limited (Cinotech) was commissioned by CHEC as the Environmental Team (ET). Dr. Priscilla CHOY of Cinotech was appointed as the ET Leader of the Project in accordance with EP Condition 2.1. Hyder Consulting Limited (Hyder) was employed by DSD to undertaken Independent Environmental Checker (IEC) services of the Project and Mr. Antony Wong of Hyder was appointed as the IEC under EP Condition 2.2.
- 1.7 The construction works for Portions 1 & 2 and Portions 3 & 4 of the Project were commenced on 18th July 2008 and 18th September 2008 respectively.
- 1.8 This is the 4th quarterly EM&A summary report summarizing the EM&A works conducted for the Project between April and June 2009.

2 PROJECT CHARACTERISTICS

Project Organization and Contacts of Key Management

- 2.1 Different parties with different levels of involvement in the project organization include:
 - Project Proponent/ Permit Holder Drainage Services Department (DSD)
 - Engineer's Representative (ER) Ove Arup & Partners Hong Kong Ltd. (ARUP)
 - Contractor China Harbour Engineering Company Limited (CHEC)
 - Environmental Team (ET) Cinotech Consultants Ltd. (Cinotech)
 - Independent Environmental Checker (IEC) Hyder Consulting Limited (Hyder)
- 2.2 The organization chart and key contacts of the Project are shown in **Appendix A and Figure 1.3**.

Construction Programme and Synopsis of Work

- 2.3 The construction programme is presented in **Appendix B**. The site activities undertaken during the reporting quarter included:
 - Construction of Switch Room no. 2 & Day Tank Storage Area;
 - Installation of E&M works of Switch Room no.1;
 - Construction of Barge Unloading Facilities;
 - Construction of Dechlorination Plant;
 - Construction of Sodium Hypochlorite Storage Compound;
 - Construction of pipe trench;
 - Construction of drainage works;
 - Construction of Cable Pit and Ducts;
 - Installation of dosing pipe on top of Sedimentation Tanks;
 - Construction of Switch Room no.3 & UPS Battery Room.
 - Finishing works for Switch Room No. 2;
 - Fiberglass Reinforced Plastic works of open mesh flooring, handrail, toe-board and cat-ladder at Day Tank Storage Area and Dechlorination Plant;
 - Fire Service & E&M works at Switch Room No. 3, Uninterruptible Power Supply Battery Room;
 - Installation works for Dosing pumps at Dechlorination Plant;
 - Installation works for Chemical pipes at Day Tank Storage Area and Dechlorination Plant:
 - Painting works for Protective coating inside sump pit, wash-out chamber and bund wall;
 - Water test for steel tanks and Fiberglass Reinforced Plastic tanks; and
 - Sand blasting inside steel tanks for internal lining.

3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

- 3.1 The Final EM&A Manual designated locations for the ET to monitor environmental impacts in terms of air quality and noise due to the Project. The Project area and monitoring location are depicted in **Figure 1.2**. **Appendix C** gives details of monitoring requirements.
- 3.2 Due to the sensitivity of the military installations within Barracks building, the People's Liberation Army (PLA) had declined ET's request for setting up the air quality monitoring station AM2 (Ngong Shuen Chau Barracks Group 2) and construction noise monitoring station NM1 (Barracks Buildings). Considering there is no other sensitive receiver within the EIA study area (500m from the Project site boundary of Portions 3 & 4 for Air Quality and 300m from the Project site boundary of Portions 3 & 4 for Noise) and no significant environmental impact form the project is anticipated, the ET Leader proposed to cancel all environmental monitoring works at the designated monitoring stations AM2 and NM1. The proposal has been verified by IEC on 19th August 2008 and approved by EPD on 2nd September 2008.
- 3.3 Only air quality monitoring (1-hour & 24-hour TSP) at AM1 (Rooftop, Block A of Government Dockyard) will be conducted for the project.

Monitoring Methodology and Calibration Details

3.4 Monitoring works/equipments were conducted/calibrated regularly in accordance with the Final EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

3.5 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix D**.

Environmental Mitigation Measures

- 3.6 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the Final EM&A Manual for the Contractor to implement. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is given in **Appendix F**.
- 3.7 In accordance with the Final EM&A Manual, site audit shall be carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

4 MONITORING RESULTS

Weather Conditions

4.1 The weather conditions during monitoring sessions were cloudy and sunny. The weather conditions for each individual monitoring session were presented in the field record sheets.

Air Quality

1-hr TSP Monitoring

- 4.2 All 1-hour TSP monitoring at AM1 (Rooftop, Block A of Government Dockyard) were conducted as scheduled in the reporting quarter.
- 4.3 The results of 1-hour TSP ranged between 25μg/m³ and 263μg/m³ in the reporting quarter. No Action/Limit Level exceedance was recorded.

24-hr TSP Monitoring

- 4.4 All 24-hr TSP monitoring at AM1 (Rooftop, Block A of Government Dockyard) were conducted as scheduled in the reporting quarter.
- 4.5 The results of 24-hour TSP ranged between $23\mu g/m^3$ and $115\mu g/m^3$ in the reporting quarter. No Action/Limit Level exceedance was recorded.
- 4.6 The monitoring data of 1-hr and 24-hr TSP Levels were attached in the appendices of the Monthly Reports for April to June 2009. The graphical presentations of the monitoring results for the reporting quarter are shown in **Appendix E**.
- 4.7 The summary of the 1-hr and 24-hr TSP exceedance is shown in **Appendix I**.

5 ENVIRONMENTAL AUDIT

Implementation Status of Environmental Mitigation Measures

5.1 The implementation status of environmental mitigation measures (EMIS) is given in **Appendix F**.

Site Audit Summary

5.2 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made in each site audit session in the reporting period are summarized in Table 5.1.

Table 5.1 ET's Observations and Recommendations of Site Audits

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	09 Apr 09	Observation Floating oil on the stagnant water was observed in Day Tank Storage Area. The Contractor was reminded to clear it.	The situation was observed improved/rectified in audit session 90415.
		Reminder The Contractor was reminded to pump the pounding water out in the Wash Out Chamber No. 2 after the rain.	The situation was observed improved/rectified in audit session 90603.
	29 May 09	Reminder The Contractor was reminded to seal off the caps of the water barriers located outside the site boundary of NaOCl Storage Chamber to prevent water accumulation.	The situation was observed improved/rectified in audit session 90603
		Reminder The Contractor was reminded to repair the pipe in Chamber 15 to prevent leakage of water.	The situation was observed improved/rectified in audit session 90603
	03 Jun 09	Observation The caps of water barriers were observed have water accumulation near the NaOCl Storage Chamber. The Contractor was reminded seal them off with plastic tape.	The situation was observed improved/ rectified in audit session 90612.
		Observation Stagnant water was observed in the steel in Chamber 15. The Contractor was reminded to clear it or cover it back with tarpaulin sheet.	The situation was observed improved/ rectified in audit session 90617
	12 Jun 09	Observation Ponding water with mosses was observed in Day Tank Storage Chamber. The Contractor was reminded to clear it and maintain the channel in good condition.	The situation was observed improved/ rectified in audit session 90617.
	17 Jun 09	Reminder The Contractor was reminded to clear the ponding water at the NaOCl Storage Chamber after the rain.	The situation was observed improved/ rectified in audit session 90624

Parameters	Date	Observations and Recommendations	Follow-up
	24 Jun 09	Observation Stagnant water was observed at NaOCl Storage Chamber, Day tank storage chamber and Chamber 15. Contractor was reminded to spray larvicide oil so as to prevent mosquito breeding.	The situation was observed improved/ rectified in audit session 90630
	24 Juli 09	Observation Water discharge to manhole was observed at Chamber 15. Contractor was reminded to treat the wastewater by sedimentation tank before discharge.	The situation was observed improved/ rectified in audit session 90630
		Observation Stagnant water was observed in the pit at Day Tank Storage Chamber. Contractor was reminded to pump it out or spray larvicide oil.	This item will be followed up in the coming audit sessions.
	30 Jun 09	Observation Silty water was flowed into U-channel at Day Tank Storage Chamber. Contractor was reminder to provide sand bags for the protection of drainage system.	This item will be followed up in the coming audit sessions.
	02 Apr 09	Observation The Contractor was reminded to cover two stockpiles of excavated materials near the NaOCl Storage Chamber.	The situation was observed improved/rectified in audit session 90415.
	09 Apr 09	Observation Partly covered stockpile was observed near the NaOCl Storage Chamber. The Contractor was reminded to cover it.	The situation was observed improved/rectified in audit session 90415.
Air Quality	06 May 09	Observation Uncovered stockpile was observed near NaOCl Chamber Room. The Contractor was reminded to cover it with tarpaulin sheet to prevent dust suppression.	The situation was observed improved/rectified in audit session 90515.
	20 May 09	Observation Partly covered stockpile was observed in Chamber 15. The Contractor was reminded to cover it back for dust suppression.	The situation was observed improved/rectified in audit session 90529
	30 Jun 09	Observation Dusty paved road was observed near man-hole MH2-20. Contractor was reminded to clear it up.	This item will be followed up in the coming audit sessions.
Waste/Chemical Management	09 Apr09	Observation: Unsorted C&D waste was accumulated near the NaOCl Storage Chamber. The Contractor was reminded to clear it.	The situation was observed improved/rectified in audit session 90415.
	09 Api09	Observation Floating oil on the stagnant water was observed in Day Tank Storage Area. The Contractor was reminded to clear it.	The situation was observed improved/rectified in audit session 90415.

Parameters	Date	Observations and Recommendations	Follow-up
	22 Apr09	Observation Portable generators without drip trays were observed in the Switch Room No. 2 and Chamber 15. The Contractor was reminded to provide drip trays to prevent oil leakage.	The situation was observed improved/rectified in audit session 90515.
	27 Apr 09	Observation Portable generators without drip trays were observed in the Switch Room No. 2, Chamber 15 and near Day Tank. The Contractor was reminded to provide drip trays to prevent oil leakage.	The situation was observed improved/rectified in audit session 90515.
	06 May 09	Observation Potable generators without drip trays were observed in the Switch Room No. 2 and Barge Unloading Area. The Contractor was reminded to provide drip tray to prevent oil leakage.	The situation was observed improved/rectified in audit session 90515
	20 May 09	Observation C and D waste was accumulated in Chamber 15. The Contractor was reminded to clear it.	The situation was observed improved/rectified in audit session 90529
	03 Jun 09	Observation Chemical containers were accumulated in Day Tank Storage Area. The Contractor was reminded to remove them properly.	The situation was observed improved/ rectified in audit session 90612
		Reminder The Contractor was reminded to clear the C and D waste in Chamber 15.	The situation was observed improved/rectified in audit session 90612
	12 Jun 09	Observation Oily water was observed near NaOCl Storage Chamber. The Contractor was reminded to clear it properly.	The situation was observed improved/ rectified in audit session 90617
		Observation Recyclables mixed with general refuse was observed at Day Tank Storage Chamber. The Contractor was reminded to sorting the recyclables out from the general refuse before disposal.	The situation was observed improved/ rectified in audit session 90624
	17 Jun 09	Reminder The Contractor was reminded to provide drip tray for the petroleum container and store it properly near the wheel washing facility at NaOCl Storage Chamber.	The situation was observed improved/ rectified in audit session 90624
		Reminder The Contractor was reminded to provide drip tray for the generator at Day Tank Storage Chamber.	The situation was observed improved/ rectified in audit session 90630
	24 Jun 09	Observation C&D waste was accumulated at Chamber 15. Contractor was reminded to clear it up as soon as possible.	The situation was observed improved/ rectified in audit session 90630
		Observation Chemical containers were placed under tree at day tank storage chamber. Contractor was reminded to remove it and store it properly.	The situation was observed improved/ rectified in audit session 90630

Parameters	eters Date Observations and Recommendations		Follow-up
		Reminder The Contractor was reminded to provide drip tray for the idled generator at Day Tank Storage Chamber.	The situation was observed improved/ rectified in audit session 90630
Others	22 Apr 09	Reminder The Contractor was reminded to spray the larvicide on the ponding waters in the Switch Room No.1 and Chamber 15 to prevent mosquito from breeding.	The situation was observed improved/rectified in audit session 90427

Status of Environmental Licenses and Permits

5.3 Environmental licenses and permits including the Environmental Permit (EP), Chemical Waste Producer License, a billing account for Disposal of construction waste, Waste Water Discharge License and Construction Noise Permit (CNP) were in place and valid during the reporting quarter. A summary of status of licenses and permits is given in **Appendix G**.

Advice on Waste Management Status

- 5.4 In this reporting period, excavated materials regard as inert Construction and Demolition (C&D) waste were the main C&D wastes disposed as Public Fill and no chemical waste was generated. The amount of wastes generated by the activities of the Project in the reporting period was attached in the appendices of the Monthly Reports for April to June 2009.
- 6 NON-COMPLIANCE (EXCEEDANCE) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedance

- 6.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedance is attached in **Appendix I**.
- 6.2 No Action/Limit Level exceedance was recorded for both 1-hour TSP and 24-hour TSP of air quality monitoring in the reporting period.

Review of the Reasons for and the Implications of Non-compliance

6.3 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Table 5.1.

Summary of action taken in the event of and follow-up on non-compliance

6.4 There was no particular action taken since no non-compliance was observed from the site audits in the reporting period.

Quarterly EM&A Report – April to June 2009

7 ENVIRONMENTAL COMPLAINT

7.1 No environmental complaint was received in the reporting period. The updated Complaint Log is attached in **Appendix H**.

8 NOTIFICATION OF SUMMON AND SUCCESSFUL PROSECUTION

8.1 No environmental prosecution was recorded in the reporting period.

9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

- 9.1 Major site activities for the coming months include:
 - Installation works for Switch Room no.1, 2 and 3;
 - FRP works of open mesh flooring, handrail, toe-board and cat-ladder at Day Tank Storage Area and Dechlorination Plant;
 - FS and E&M works at Switch Room no.3, UPS Battery Room;
 - Installation works for dosing pumps at Dechlorination Plant;
 - Installation works for chemical pipes at Day tank Storage Area and Dechlorination Plant:
 - Painting works for protective coating inside sump pit, wash-out chamber and bund
 - Water test for steel tanks and FRP tanks; and
 - Sand blasting inside steel tanks for internal lining.
- 9.2 Key issues to be considered in the coming months include:
 - Dust emission from concrete breaking, excavation and loading and unloading dusty materials;
 - Surface runoff from the Site area due to construction works and rain;
 - Noise nuisance from operation of equipment and machinery on site;
 - Maintenance of de-silting facilities and drainage system, such as U-channels;
 - Formation of ponding/ stagnant water on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site:
 - Larviciding against mosquito breeding in stagnant water should be carried out at least on a weekly basis; and
 - Accumulation of C&D waste and general waste on site.
- According to the environmental audit sessions performed in the reporting period, the 9.3 following recommendations were made:

Water Impact

- To ensure proper use and maintenance of the de-silting facilities and drainage system;
- To avoid formation of ponding/ stagnant water on site;
- To carry out larviciding regularly against mosquito breeding:
- To well maintain the drainage system inside and around the Site area; and
- To prevent surface runoff into public area or drainage channel.

Dust Impact

- To provide water spraying regularly on stockpiles of dusty materials, loading/ unloading of dusty materials and dried site areas;
- To remain good site practice on handling excavated or dusty material for dust suppression, e.g. covering by impervious materials;
- To check and maintain the mechanical equipments regularly to avoid black smoke emission: and
- To provide adequate enclosure, i.e. three sides and top covers, for the cement mixing works for dust suppression.

Quarterly EM&A Report – April to June 2009

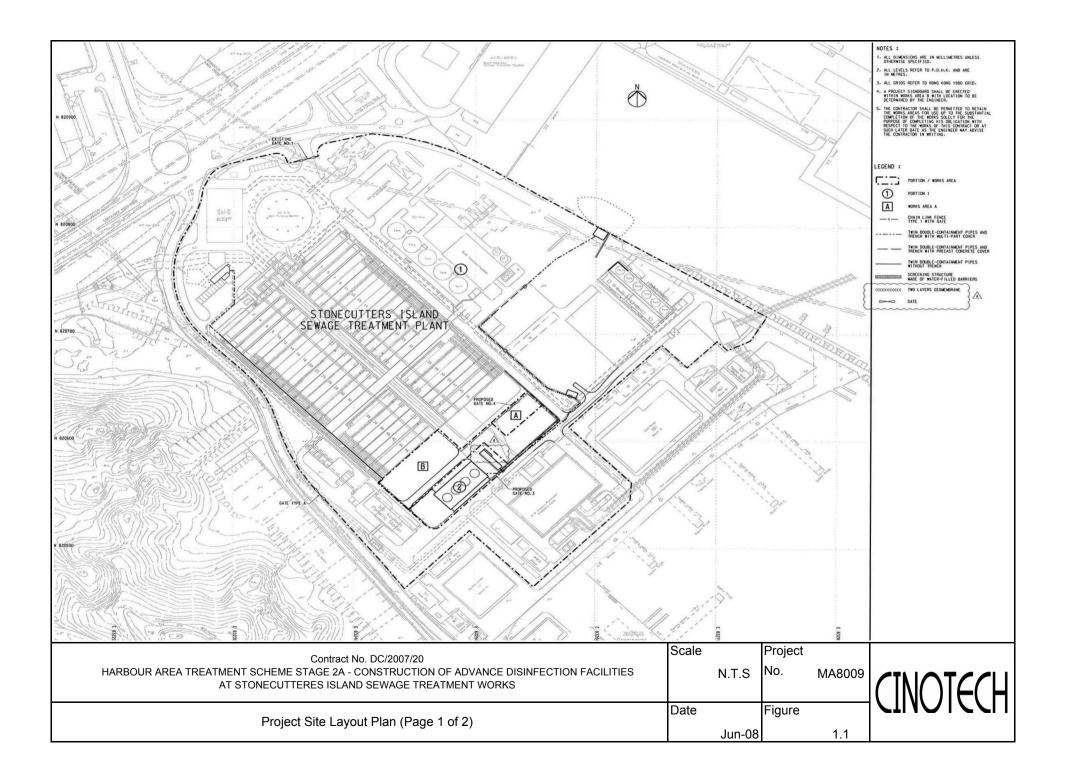
Noise Impact

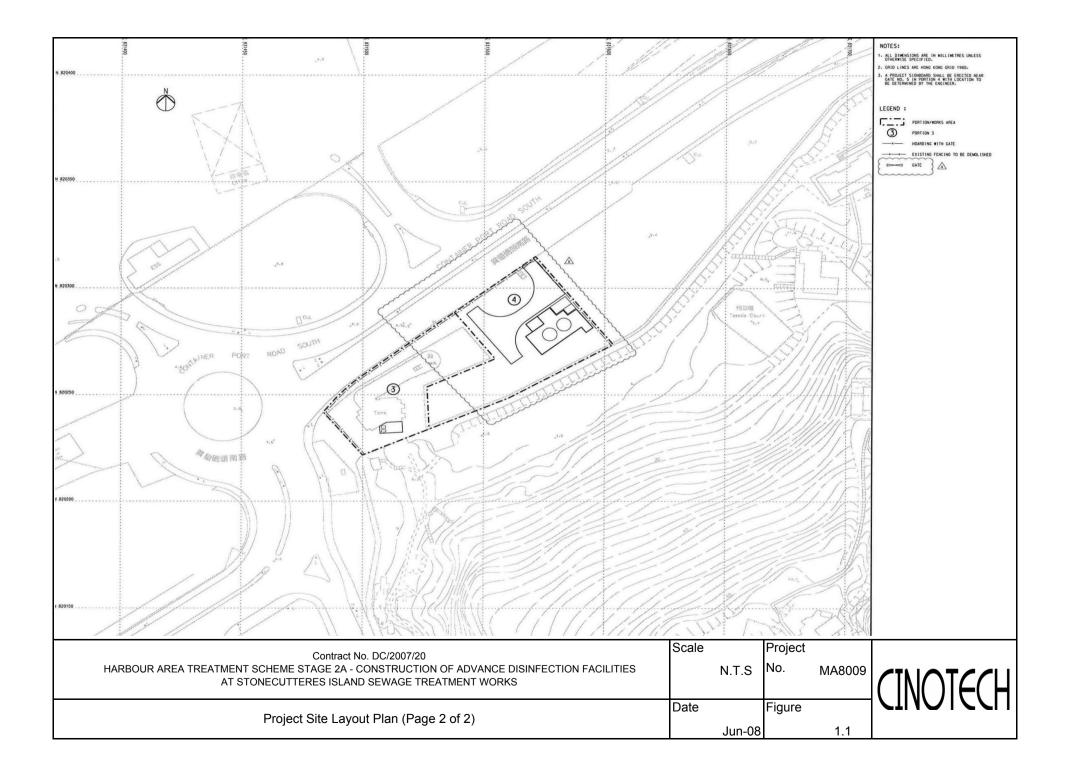
- To space out noisy equipments and position as far away as possible from sensitive receivers;
- To provide adequate lubricant on mechanical equipments to reduce frictional noise;
 and
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.

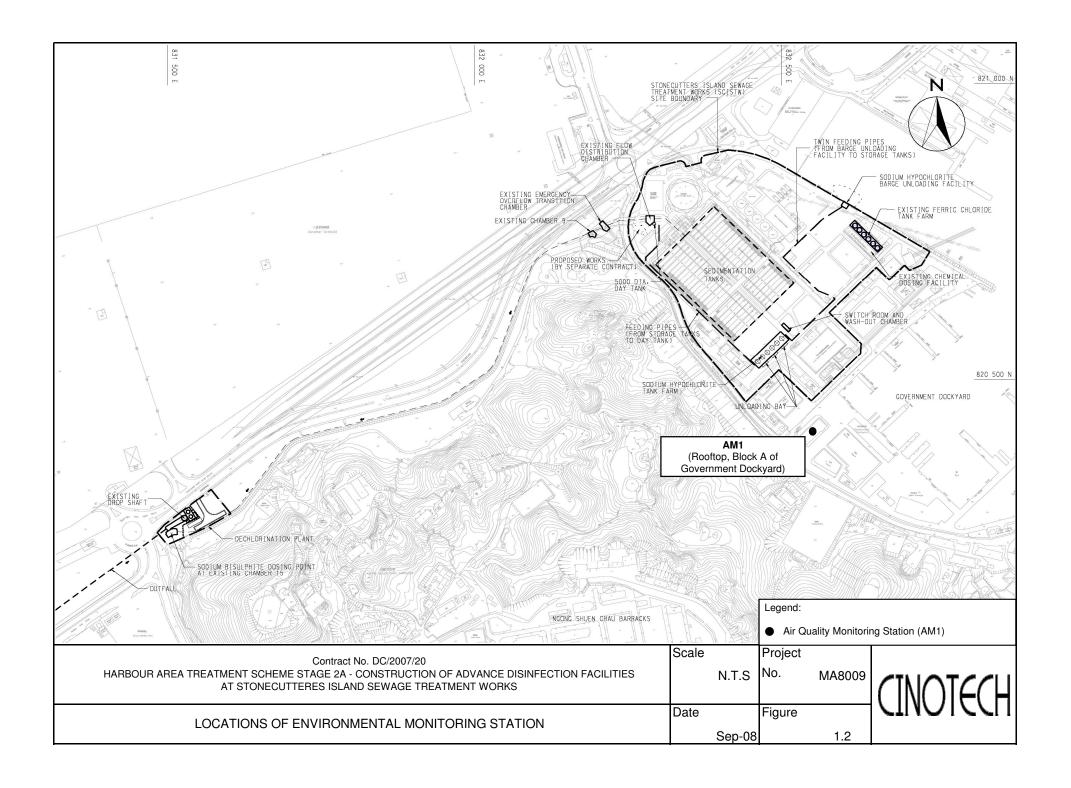
Waste / Chemical Management

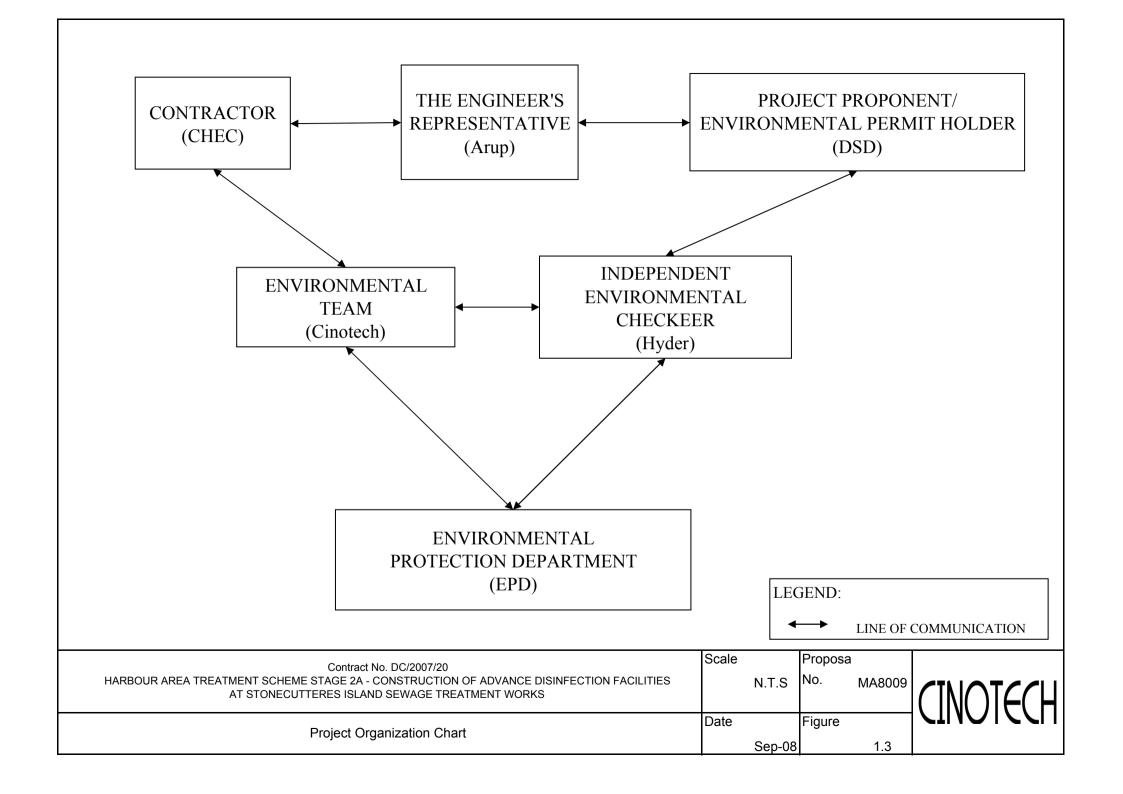
- To provide proper rubbish bins / skips for waste collection;
- To provide proper storage area or drip trays for oil containers on site;
- To avoid and check for any accumulation of waste materials or rubbish on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment; and
- To well maintain the equipments and drip trays to avoid oil leakage.

FIGURES







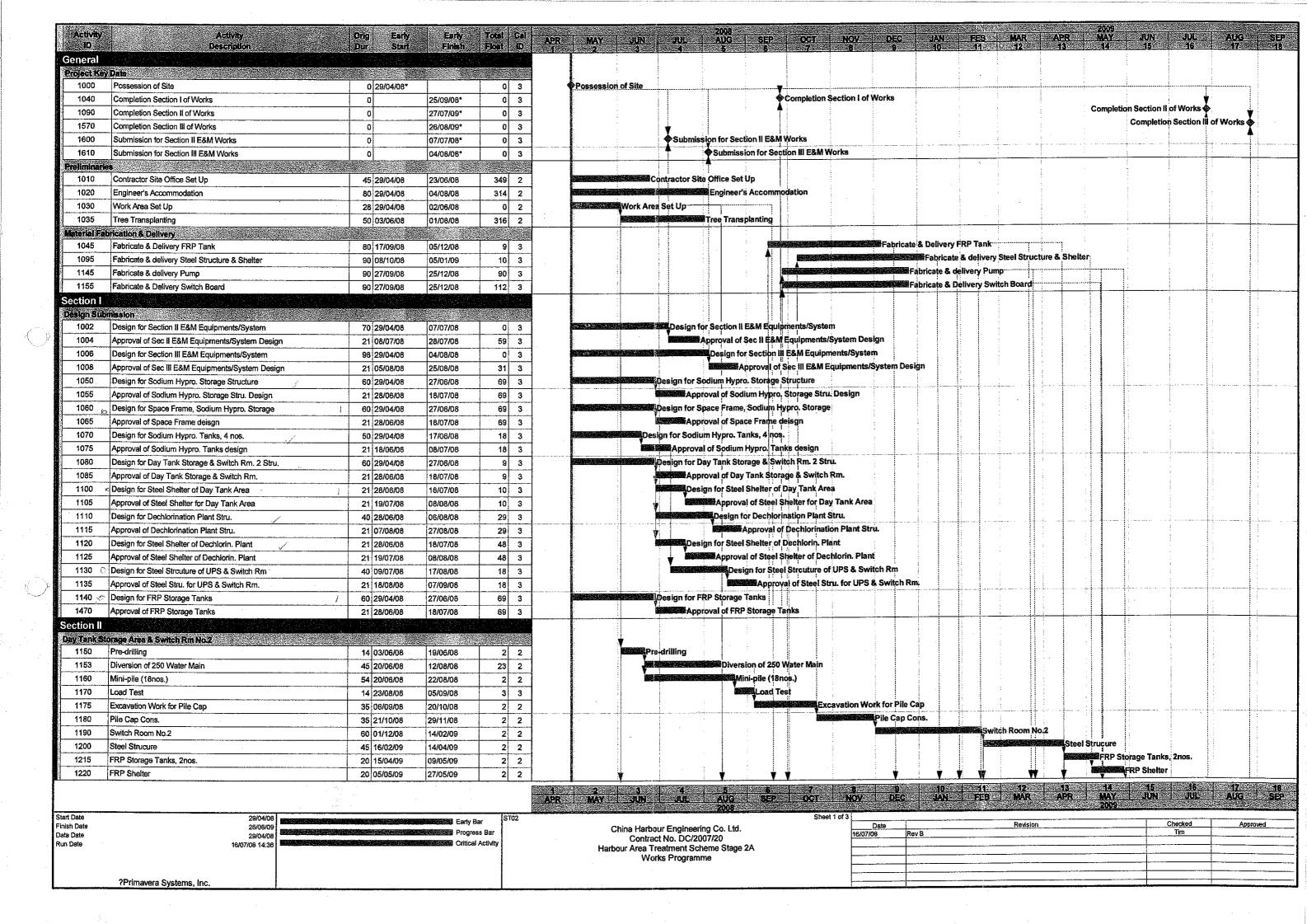


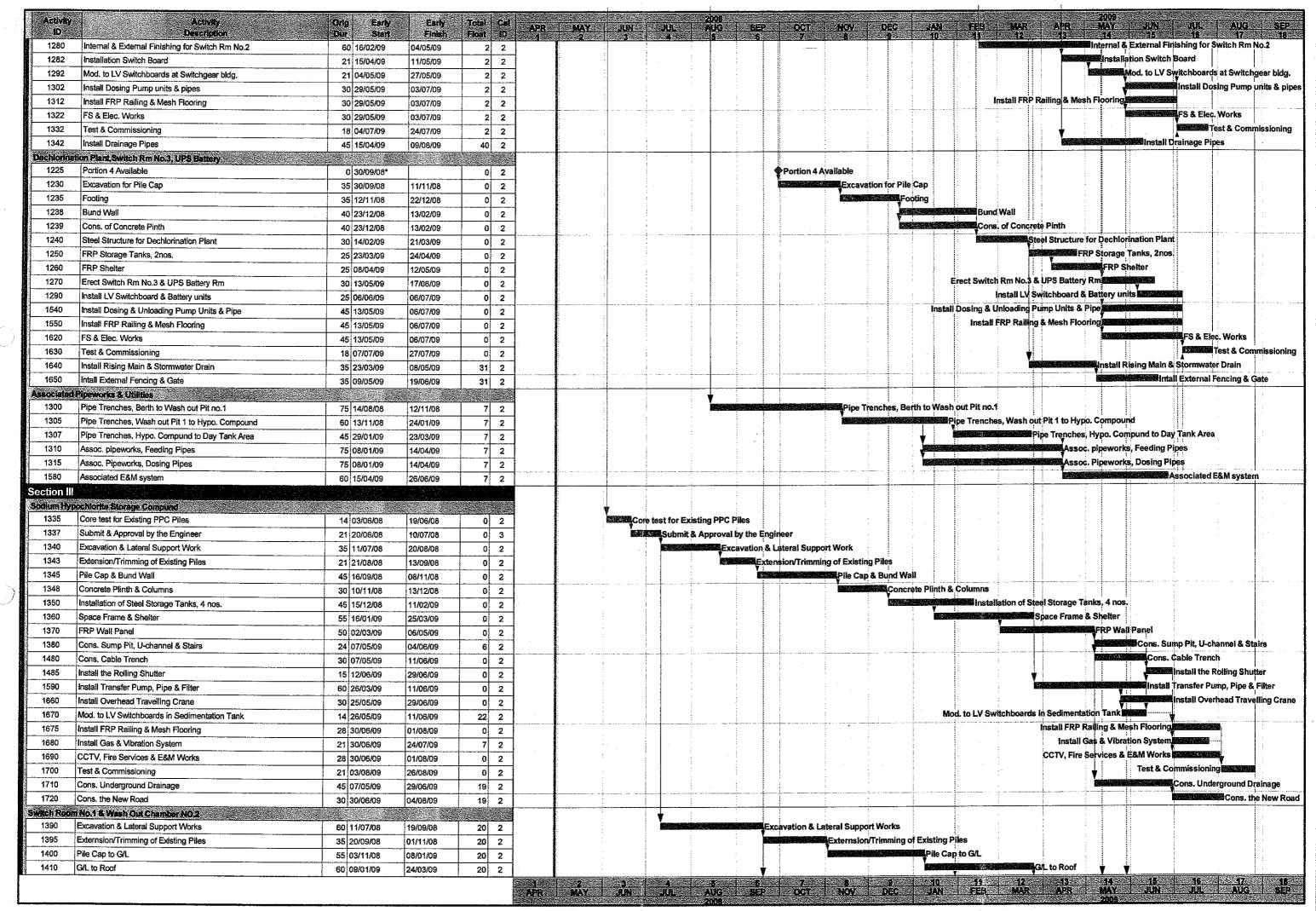
APPENDIX A CONTACT DETAILS OF THE PROJECT ORGANISATION

Appendix A - Contact Details of the Project Organisation

Party	Role	Name	Position	Phone No.	Fax No.	
DSD	Project Proponent/ Permit Holder	Ms. Ada LAI	Engineer	2159 3411	2833 9162	
ARUP	Engineer's	Mr. Gary CHEUNG	Resident Engineer	6201 3158	2407.9772	
ARUP	Representative	Mr. Sunny LO	Inspector of Works	6345 0548	2407 8772	
		Mr. T. K. CHEUNG	Project Manager	2741 0191		
CHEC	Contractor	Mr. Aaron AU	Site Agent	6345 0754	2741 2772	
		Mr. M. C. LAM	Environmental Officer	9483 0566		
	Environmental Team		Dr. Priscilla CHOY	Environmental Team Leader	2151 2089	
Cinotech		Ms. Cherry Mak	Project Coordinator and Audit Team Leader	2151 2097	3107 1388	
		Mr. Henry LEUNG	Monitoring Team Leader	2151 2087		
	Independent Environmental Checker	Mr. Antony WONG	Independent Environmental Checker	2911 2744		
Hyder		Ms. Selina LEUNG	Independent Environmental Checker Representative	2911 2745	2805 5028	

APPENDIX B CONSTRUCTION PROGRAMME





Sheet 2 of 3

Activity ID	Activity Description	Orig Early Dur Start	Early Finish	Total Cal Float ID	2008	AUG S
1420	Internal & External Finishing	45 25/03/09	22/05/09	20 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	market and the second second second
1430	Install Elec. Travelling Hoist	14 12/05/09	27/05/09	20 2	Install Elec. Travelling Holst	it i
1530	Install the Switch Board	28 12/05/09	13/06/09	20 2	install the Switch Boa	ard
1730	Install Washout Pump and Pipes	35 29/05/09	09/07/09	20 2	Install Washout Pump and Pipes	
1740	Fire Services & E&M Works	21 15/06/09	09/07/09	20 2	Fire Service	es & E&M W
1750	Test & Commissioning	21 10/07/09	03/08/09	20 2	Test & Commissioning	
ashout Ch	iamber No.1					
1435	Excavation & Lateral Support Works	45 20/09/08	13/11/08	20 2	Excavation & Lateral Support Works	
1440	Construction of Wash Out Pit No.1	60 14/11/08	29/01/09	93 2	Construction of Wash Out Pit No.1	
1760	Install Washout Pump & Pipe	28 30/01/09	03/03/09	93 2	Install Washout Pump & Pipe	
1770	Fire Service & E&M Works	28 04/03/09	07/04/09	93 2	Fire Service & E&M Works	:
1775	Test & Commissioning	21 08/04/09	07/05/09	93 2	Test & Commissioning	
one commence and	iding Area					
1450	Excavation & Lateral Support Works	30 14/11/08	18/12/08	20 2	Excavation & Lateral Support Works	
1460	Construction of Structure	45 19/12/08	16/02/09	20 2	Construction of Structure	
1520	E&M Works	28 17/02/09	21/03/09	107 2	E&M Works	
1780	Mod. LV Switchboards at Ferric Chloride Storage	14 12/03/09	28/03/09	107 2	Mod. LV Switchboards at Ferric Chloride Storage	
1790	Test & Commissioning	14 30/03/09	18/04/09	107 2	Test & Commissioning	
esta printe estate veste	Cons. Extension Bundwall & 200 UC	28 17/02/09	21/03/09	127 2	Cons. Extension Bundwall & 200 UC	
hers	Constitution of the state of th					
	Gas & Vib. Delection for Ferric Chloride Storage	14 12/03/09	28/03/09	121 2	Gas & Vib. Delection for Ferric Chloride Storage	
1486	CCTV System for Ferric Chloride Storage	14 12/03/09	28/03/09	121 2	CCTV System for Ferric Chloride Storage Truck Unloading Sys for Ferric Chloride Storage	
	Truck Unloading Sys for Ferric Chloride Storage Demolition of storage struc.	14 12/03/09	28/03/09	121 2	Demolition of storage struc.	
	Provision of storage struc.	45 17/02/09	15/04/09	20 2	Provision of storage struc.	
	Road Work	90 16/04/09	03/08/09	20 2	Provision of storage struct.	Posd Work
	Cons. Gate Type A	60 23/05/09	03/08/09	20 2		rcad work Cons. Gate T
1010	Curis, Gale Type A	30 29/06/09	03/08/09	20 2	Books and the second se	Jons, Gate I

APPENDIX C MONITORING REQUIREMENTS

APPENDIX C – Monitoring Requirements

Type of Monitoring	Parameter	Frequency	Location of Measurement
Air Quality	1-hour TSP	3 times / 6-day	AM1 (Rooftop, Block A of Government Dockyard)
	24-hour TSP	Once / 6-day	

Remarks: Due to the sensitivity of the military installations within Barracks building, the People's Liberation Army (PLA) had declined ET's request for setting up the air quality monitoring station AM2 (Ngong Shuen Chau Barracks – Group 2) and construction noise monitoring station NM1 (Barracks Buildings). Considering there is no other sensitive receiver within the EIA study area (500m from the Project site boundary of Portions 3 & 4 for Noise) and no significant environmental impact form the project is anticipated, the ET Leader proposed to cancel all environmental monitoring works at the designated monitoring stations AM2 and NM1. The proposal has been verified by IEC on 19th August 2008 and approved by EPD on 2nd September 2008.

APPENDIX D ACTION AND LIMIT LEVELS

APPENDIX D - Action and Limit Levels

Table D-1 Action and Limit Levels for 1-Hour TSP

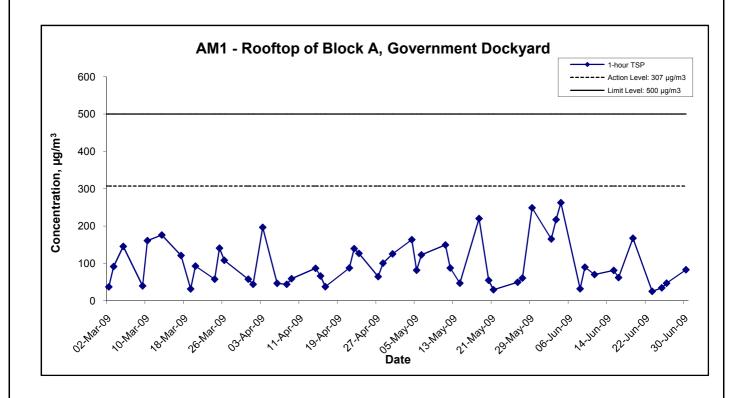
Location	Action Level, μg/m³	Limit Level, µg/m³
AM1	307	500

Table D-2 Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m³	Limit Level, µg/m³
AM1	158	260

APPENDIX E GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS

1-hr TSP Concentration Levels



Title Contract No. DC/2007/20

HATS Stage 2A – Construction of Advance Disinfection Facilities at SCISTW

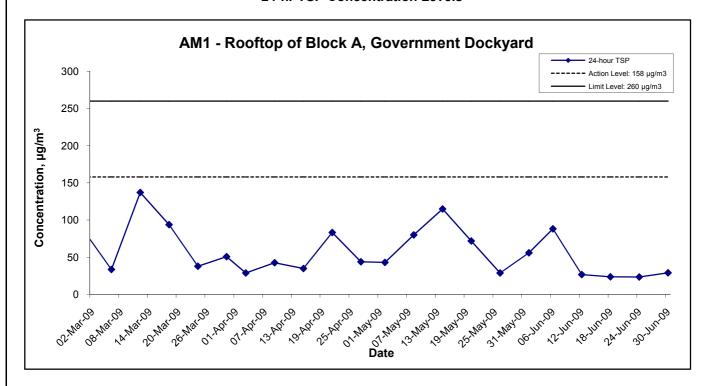
Graphical Presentation of 1-hour TSP Monitoring Results

Scale N.T.S Project No. MA8009

Date Jun 09 Appendix E



24-hr TSP Concentration Levels



Title

Contract No. DC/2007/20

HATS Stage 2A – Construction of Advance Disinfection Facilities at SCISTW

Graphical Presentation of 24-hour TSP Monitoring Results

Scale N.T.S Project No. MA8009

Date Jun 09 Appendix E



APPENDIX F SUMMARY OF ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

APPENDIX F – Summary of Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation and Guidelines
			Agent	Des	С	О	Dec	
S3.29	Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust)	Work sites / During	Contractor		V			EIAO-TM and Air
	Regulation should be incorporated to control dust emission from the site. Control measures	the construction						Pollution Control
	relevant to this Project are listed below:	period						(Construction Dust)
	Skip hoist for material transport should be totally enclosed by impervious sheeting;							Regulation
	Vehicle washing facilities should be provided at every vehicle exit point;							
	The area where vehicle washing takes place and the section of the road between the							
	washing facilities and the exit point should be paved with concrete, bituminous							
	materials or hardcore;							
	Where a site boundary adjoins a road, streets or other areas accessible to the public,							
	hoarding of not less than 2.4 m high from ground level should be provided along the							
	entire length except for a site entrance or exit;							
	Use of regular watering, with complete coverage, to reduce dust emissions from							
	exposed site surfaces and unpaved roads, particularly during dry weather;							
	Side enclosure and covering of any aggregate or dusty material storage piles to							
	reduce emissions. Where this is not practicable owing to frequent usage, watering							
	shall be applied to aggregate fines;							
	Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty							
	material storage piles near ASRs;							
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site							
	locations;							
	• Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation
			Agent	Des	C	o	Dec	
	 hour is the recommended limit; Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides; Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites; and Instigation of an environmental monitoring and auditing program to monitor the 							
	construction process in order to enforce controls and modify method of work if dusty conditions arise.							
S4.48 – S4.50	Use of quiet PME	Work sites / During the construction period	Contractor		√			EIAO-TM and Noise Control Ordinance
S4.51	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program; Mobile plant, if any, should be sited as far from NSRs as possible; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 	Work sites / During the construction period	Contractor		٧			EIAO-TM and Noise Control Ordinance

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation and Guidelines
			Agent	Des	С	0	Dec	
\$4.56 & \$13	Noise monitoring should be carried out to ensure that noise mitigation measures would be properly implemented. Details of the monitoring requirements are specified in the EM&A Manual.	Barrack / During the construction period	Contractor		√			EIAO-TM and Noise Control Ordinance
S5.212	The practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted. It is recommended to install perimeter channels in the works areas to intercept runoff at site boundary prior to the commencement of any earthwork. To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided. Drainage channels are also required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance can ensure the normal operation of these facilities throughout the construction period. Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Work sites / During the construction period	Contractor		٧			EIAO-TM and Water Pollution Control Ordinance
S5.213	There is a need to apply to EPD for a discharge licence under the WPCO for discharging effluent from the construction site. The discharge quality is required to meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Reuse and recycling of the treated effluent can minimise water consumption and reduce the effluent discharge volume. The beneficial uses of the treated effluent may include dust suppression, wheel washing and general cleaning. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.	Work sites / During the construction period	Contractor		٧			EIAO-TM and Water Pollution Control Ordinance

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing Agent		Implementation Stages*			ges*	Relevant Legislation
			Agent	Des	С	О	Dec	
	The construction programme should be properly planned to minimise soil excavation, if	Work sites / During	Contractor		√			EIAO-TM and Water
	any, in rainy seasons. This prevents soil erosion from exposed soil surfaces. Any exposed	the construction						Pollution Control
	soil surfaces should also be properly protected to minimise dust emission. In areas where a	period						Ordinance
	large amount of exposed soils exist, earth bunds or sand bags should be provided. Exposed							
	stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles							
S5.214	of materials should be placed at locations away from any stream courses so as to avoid							
	releasing materials into the water bodies. Final surfaces of earthworks should be compacted							
	and protected by permanent work. It is suggested that haul roads should be paved with							
	concrete and the temporary access roads protected using crushed stone or gravel, wherever							
	practicable. Wheel washing facilities should be provided at all site exits to ensure that earth,							
	mud and debris would not be carried out of the works areas by vehicles.							
	Good site practices should be adopted to clean the rubbish and litter on the construction	Work sites / During	Contractor		\checkmark			EIAO-TM and Water
S5.215	sites so as to prevent the rubbish and litter from spreading from the site area. It is	the construction						Pollution Control
	recommended to clean the construction sites on a regular basis.	period						Ordinance
	The presence of construction workers generates sewage. It is recommended to provide	Work sites / During	Contractor		\checkmark			EIAO-TM and Water
	sufficient chemical toilets in the works areas. The toilet facilities should be more than 30 m	the construction						Pollution Control
S5.216	from any watercourse. A licensed waste collector should be deployed to clean the chemical	period						Ordinance
	toilets on a regular basis. The construction workers can also make use of the existing toilet							
	facilities within the SCISTW as necessary.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Implementation Location/Timing Agent	Implementation Stages*			ges*	Relevant Legislation	
			Agent	Des	C	О	Dec	
	Notices should be posted at conspicuous locations to remind the workers not to discharge	Work sites / During	Contractor		V			EIAO-TM and Water
	any sewage or wastewater into the nearby environment during the construction phase of the	the construction						Pollution Control
	project. Regular environmental audit on the construction site can provide an effective	period						Ordinance
S5.217	control of any malpractices and can achieve continual improvement of environmental							
	performance on site. It is anticipated that sewage generation during the construction phase							
	of the project would not cause water pollution problem after undertaking all required							
	measures.							
	Contractor must register as a chemical waste producer if chemical wastes would be	Work sites / During	Contractor		√			EIAO-TM and Waste
~~~	produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its	the construction						Disposal Ordinance
S5.218	subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General)	period						
	Regulation should be observed and complied with for control of chemical wastes.							
	Any service shop and maintenance facilities should be located on hard standings within a	Work sites / During	Contractor		√			EIAO-TM, Waste
S5.219	bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles	the construction						Disposal Ordinance and
55.219	and equipment involving activities with potential for leakage and spillage should only be	period						Water Pollution Control
	undertaken within the areas appropriately equipped to control these discharges.							Ordinance
	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal	Work sites / During	Contractor		√			EIAO-TM and Waste
	Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical	the construction						Disposal Ordinance
	Wastes published under the Waste Disposal Ordinance details the requirements to deal with	period						
05.220	chemical wastes. General requirements are given as follows:							
S5.220	Suitable containers should be used to hold the chemical wastes to avoid leakage or							
	spillage during storage, handling and transport.							
	Chemical waste containers should be suitably labeled, to notify and warn the							
	personnel who are handling the wastes, to avoid accidents.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation  Agent	Implementation Stages*				Relevant Legislation
			Agent	Des	С	О	Dec	
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.							
	Good Site Practices	Work sites / During	Contractor		√			Waste Disposal
	Recommendations for good site practices during the	the construction						Ordinance (Cap.54)
	construction activities include:	period						ETWB TCW No.
	Nomination of an approved person, such as a site manager, to be responsible for							19/2005
	good site practices, arrangements for collection and effective disposal to an							
	appropriate facility, of all wastes generated at the site							
	Training of site personnel in proper waste management and chemical handling							
S10.21	procedures							
	Provision of sufficient waste disposal points and regular collection of waste							
	Appropriate measures to minimise windblown litter and dust during transportation							
	of waste by either covering trucks or by transporting wastes in enclosed containers							
	Regular cleaning and maintenance programme for drainage systems, sumps and oil							
	interceptors.							
	Separation of chemical wastes for special handling and appropriate treatment at the							
	Chemical Waste Treatment Facility.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Implementation Stages*			Relevant Legislation and Guidelines	
			Agent	Des	C	0	Dec	
	Waste Reduction Measures	Work sites / During	Contractor	√	√			
	Waste reduction is best achieved at the planning and design stage, as well as by ensuring	planning & design						
	the implementation of good site practices. Recommendations to achieve waste reduction	stage, and						
	include:	construction stage						
	Segregation and storage of different types of waste indifferent containers, skips or							
	stockpiles to enhance reuse or recycling of materials and their proper disposal							
	Encourage collection of aluminium cans by providing separate labelled bins to							
	enable this waste to be segregated from other general refuse generated by the							
S10.22	workforce							
310.22	Proper storage and site practices to minimise the potential for damage or	ne potential for damage or						
	contamination of construction materials							
	Plan and stock construction materials carefully to minimise amount of waste							
	generated and avoid unnecessary generation of waste.							
	A recording system for the amount of wastes generated, recycled and disposed							
	(including disposal sites) should be proposed.							
	Training should be provided to workers about the concepts of site cleanliness and							
	appropriate waste management procedures, including waste reduction, reuse and							
	recycle.							
	General Refuse	Work sites / During	Contractor		$\checkmark$			Public Health and
	General refuse should be stored in enclosed bins or compaction units separate from C&D	the construction						Municipal Services
S10.24	material. A reputable waste collector should be employed by the contractor to remove	period						Ordinance (Cap. 132)
	general refuse from the site, separately from C&D material. Preferably an enclosed and							
	covered area should be provided to reduce the occurrence of 'wind blown' light material.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation and Guidelines
			Agent	Des	C	О	Dec	
	Construction and Demolition Material	Work sites / During	Contractor	<b>√</b>	<b>√</b>			ETWB TCW No.
	In order to minimise impacts resulting from collection and transportation of C&D material	design stage and						33/2002
	for off-site disposal, the excavated material generated from excavation works for the	construction period						ETWB TCW No.
	proposed chlorination plant, dechlorination plant, day tank and pipe trenches should be							19/2005
	reused on-site as backfilling material as far as practicable. The surplus excavated material							
S10.25	should be disposed of at the designated public fill reception facility, as agreed with the							
	Secretary of the Public Fill Committee, for other beneficial uses. C&D waste generated							
	from site clearance and dismantling of formwork would require disposal to the designated							
	landfill site. In order to monitor the disposal of C&D material at the public fill reception							
	facility and landfill and to control fly-tipping, a trip-ticket system should be included. One							
	may make reference to ETWB TCW No. 31/2004 for details.							
	Chemical Waste	Work sites / During	Contractor		$\checkmark$			Waste Disposal
	If chemical wastes are produced at the construction site, the Contractor would be required	the construction						(Chemical Waste)
	to register with the EPD as a chemical waste producer and to follow the guidelines stated in	period						(General) Regulation
	the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good							
	quality containers compatible with the chemical wastes should be used, and incompatible							
S10.26	chemicals should be stored separately. Appropriate labels should be securely attached on							
	each chemical waste container indicating the corresponding chemical characteristics of the							
	chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive,							
	etc. The Contractor shall use a licensed collector to transport and dispose of the chemical							
	wastes, to either the approved Chemical Waste Treatment Centre, or another licensed							
	facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							

[#] All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

^{*} Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

#### APPENDIX G SUMMARY OF ENVIRONMENTAL LICENCES AND PERMITS

Appendix G - Summary of Environmental Licensing and Permit Status

Permit /	Valid		- Details	Status	
License No.	From	To	Details	Status	
		Envi	ronmental Permit (EP)	T	
EP-295/2007	within the existing Stonecutters Island Sewage				
EP-295/2007/A	20/5/09	N/A	Treatment Works. The disinfection facilities include storage, dosing and associated pipeline systems for sodium hypochlorite sodium bisulphite.	Valid	
	Billin	ig Account j	for Disposal of Construction Waste		
7007138	13/05/08	N/A	Disposal of Construction waste.	Valid	
		Chemica	d Waste Producer Number		
WPN: 5213-269- C2397-22	04/09/08	N/A	Disposal of Chemical Waste including lubricating oil, spent batteries and etc.	Valid	
		Waste	Water Discharge License	•	
EP760/269/0133011	14/07/08	31/07/13	Discharge of industrial trade effluent and all other wastewater arising from Construction site at Stonecutters Island Sewage Treatment Works, Kowloon (Contract No. DC/2007/20 HATS 2A-Construction of Advance Disinfection Facilities at SCISTW) to communal storm drain after solid removal.	Valid	
EP760/269/0133011a	27/10/08	31/10/13	Discharge of industrial trade effluent and all other wastewater arising from Construction site of Harbour Area Treatment Scheme 2 A (Portions 3 & 4), at Container Port Road South, Stonecutters Island, Kowloon to communal storm drain after solid removal.	Valid	
	_	Constru	ction Noise Permit (CNP)		
PP-RW0007-09	20/03/09	19/06/09	Location: Construction site in Stonecutters Island Sewage Treatment Works at Stonecutters Island, Kowloon.  Day and hours for the use of PMEs: 07:00-19:00 on any day not being a general holiday.	Expired	
GW-RW0057-09	1/3/09	31/8/09	Location: Construction site in Stonecutters Island Sewage Treatment Works at Stonecutters Island, Kowloon.  Day and hours for the use of PMEs: 19:00-23:00 on any day not being a general holiday and 07:00-19:00 on general holidays including Sundays	Valid	

#### APPENDIX H COMPLAINT LOG

## **APPENDIX H – Complaint Log**

**Reporting Period: April to June 2009** 

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint was received from July 2008 to June 2009.

#### APPENDIX I SUMMARY OF EXCEEDANCE

### **APPENDIX I – Summary of Exceedance**

- (A) Exceedance Report for 1-hr TSP (NIL in the reporting quarter)
- (B) Exceedance Report for 24-hr TSP (NIL in the reporting quarter)
- (C) Exceedance Report for Construction Noise (NIL in the reporting quarter)